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P.O. BOX 1022			HEARD, THOMAS SWEENEY		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Office Action Summary 10/800,344		Application No.	Applicant(s)				
Thomas S. Heard Thomas S. Heard Tis54		10/800,344	BOISMENU ET AL.				
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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, Claims 1-34, and the species Generalized Anxiety Disorder (GAD), in the reply filed on 1/25/2007 is acknowledged. Claims 1-3 and 11-28 read on the elected species. Claims 4-10 and 29-34 are withdrawn as not reading on the Applicant's elected species.

Claims 35-38 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected subject matter, there being no allowable generic or linking claim.

Information Disclosure Statement

A signed IDS accompanies this Office Action

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3 and 11-28 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter, which was not described in the specification in such a way as

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to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was fled, had possession of the claimed invention.

The Written Description Guidelines for examination of patent applications indicates, "the written description requirement for a claimed genus may be satisfied through sufficient description of a representative number of species by actual reduction to practice, or by disclosure of relevant, identifying characteristics, i.e., structure or other physical characteristics and/or other chemical properties, by functional characteristics coupled with a known or disclosed correlation between function and structure, or by a combination of such identifying characteristics, sufficient to show applicant was in possession of the claimed genus." (see MPEP 2164).

In the instant case the claims encompass Secretin analog(s). The specification discloses only Secretin, thus, indicating distinct structural and functional properties of one sub-genus of molecules embraced by the claims. However, as discussed above, the claims encompass any analog, which may or not be peptide based, as the naturally occurring Secretin is a peptide. Conception does not occur unless one has a mental picture of the structure of the molecule, or is able to define it by its method of preparation, its physical or chemical properties, or whatever characteristics sufficiently distinguish it. Further, it is not sufficient to define it solely by its principle property, e.g., for generating SCCE-specific T cells, because an alleged conception having no more specificity than that is simply a wish to know the identity of any material with that biological property.

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Vas-Cath Inc. v. Mahurkar, 19USPQ2d 1111, clearly states "applicant must convey with reasonable clarity to those skilled in the art that, as of the filing date sought, he or she was in possession of the invention. The invention is, for purposes of the 'written description' inquiry, whatever is now claimed." (See page 1117.) The specification does not "clearly allow persons of ordinary skill in the art to recognize that [he or she] invented what is claimed." (See Vas-Cath at page 1116). As discussed above, the skilled artisan cannot envision the detailed chemical structure of the encompassed genus of SCCE proteins and fragments thereof, and therefore conception is not achieved until reduction to practice has occurred, regardless of the complexity or simplicity of the method of isolation. Adequate written description requires more than a mere statement that it is part of the invention and reference to a potential method of isolating it. The compound itself is required. See Fiers v. Revel, 25 USPQ2d 1601 at 1606 (CAFC 1993) and Amgen Inc. v. Chugai Pharmaceutical Co. Ltd., 18 USPQ2d 1016.

One cannot describe what one has not conceived. See *Fiddes v. Baird*, 30 USPQ2d 1481 at 1483. In *Fiddes v. Baird*, claims directed to mammalian FGF's were found to be unpatentable due to lack of written description for that broad class. The specification provided only for Secretin.

Therefore, only the peptide Secretin but not the full breadth of the claim meets the written description provision of 35 U.S.C. §112, first paragraph. Applicant is reminded that *Vas-Cath* makes clear that the written description provision of 35 U.S.C. §112 is severable from its enablement provision (see page 1115).

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-3, 11-28 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for obsessive-compulsive disorders with Secretin, does not reasonably provide enablement for generalized affective disorder (GAD) with Secretin or Secretin analogs. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

The factors to be considered in determining whether a disclosure meets the enablement requirements of 35 U.S.C. 112, first paragraph, have been described in *In re Wands*, 858 F.2d 731, 8 USPQ2d 1400 (Fed. Cir., 1988). The court in Wands states, "Enablement is not precluded by the necessity for some experimentation, such as routine screening. However, experimentation needed to practice the invention must not be undue experimentation. The key word is 'undue', not 'experimentation'" (Wands, 8 USPQ2sd 1404). Clearly, enablement of a claimed invention cannot be predicated on the basis of quantity of experimentation required to make or use the invention. "Whether undue experimentation is needed is not a single, simple factual determination, but rather is a conclusion reached by weighing many factual considerations" (Wands, 8 USPQ2d 1404). Among these factors are: (1) the nature of the invention; (2) the breadth of the claims; (3) the state of the prior art; (4) the relative skill of those in the art; (5) the predictability or unpredictability of the art; (6) the amount of direction or guidance

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presented; (7) the presence or absence of working examples; and (8) the quantity of experimentation necessary.

While all of these factors are considered, a sufficient amount for a *prima facie* case is discussed below.

(1) The nature of the invention and (2) the breadth of the claims:

The claims are drawn to a method of treatment of a variety of anxiety disorders.

Thus, the claims taken together with the specification imply Secretin efficacy for all of the claimed anxiety disorders.

(3) The state of the prior art:

Repligen Corporation (WO 99/64059 A2) has demonstrated the treatment of autism, an affective disorder, with Secretin; see 102(b) below.

(4) The relative skill of those in the art:

The relative skill of those in the art is high.

(5) The predictability or unpredictability of the art: (6) The amount of direction or guidance presented; (7) The presence or absence of working examples; and (8) The quantity of experimentation necessary:

Since the demonstration of efficacy in GAD remains largely unsolved, means for determining its effectiveness is highly unpredictable. The specification does not provide information on how to practice the method of treating GAD. The specification has provided one prophetic example with no endpoint in the experiment. There is only one patient. No improvement was noted after 6 weeks of treatment. Only a recommendation of what to possibly do after the patient responds in provided for a

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guide. Considering the state of the art as discussed by Wands Factor and the high unpredictability and the lack of guidance provided in the specification, one of ordinary skill in the art would be burdened with undue experimentation to treat individuals with GAD with Secretin or Secretin analogs in order to establish a correlation between the effective dosage range and the amelioration of the symptoms.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 11-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Repligen Corporation (WO 99/64059 A2), in light of

http://www.rxlist.com/cgi/generic/secretin_cp.htm for the definition of Clinical Units (CU).

Repligene discloses the treatment of anxiety disorders (affective disorders) with Secretin in a patient exhibiting symptoms of the disorders. Anxiety disorders include obsessive-compulsive disorders and autism (an affective disorder of childhood). Note Autism is considered any number of pervasive developmental disorders (PDD) by Repligene, see page 5 and line 25. Porcine (Secretin-Ferring) was administered to autistic children and the specification discloses the administration at (generally) 2 CU/kg, readable upon claim 16, 17, 18, 22, 23, 27 and 28 as Rx-List defines 1 CU of Secretin as .2 mcg, therefore .4 µg/kg was administered. Routes of administration

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perceived by Repligene include, orally, nasally, and intravenously. Administration of Secretin was administered daily, readable upon multiple times, regular intervals, and intermittent (claims 12 -14), see Example 1 on page 6 and Example 2, on page 9. Behavioral changes, were observed in Example 1 (page 6) readable upon impaired learning and memory of claim 2. Therefore, the invention as claimed is anticipated by the prior art.

Conclusion

No claims are allowed.

Applicant should specifically point out the support for any amendments made to the disclosure, including the claims (MPEP 714.02 and 2163.06). Due to the procedure outlined in MPEP § 2163.06 for interpreting claims, it is noted that other art may be applicable under 35 U.S.C. § 102 or 35 U.S.C. § 103(a) once the aforementioned issue(s) is/are addressed.

Applicant is requested to provide a list of all copending applications that set forth similar subject matter to the present claims. A copy of such copending claims is requested in response to this Office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas S. Heard whose telephone number is (571) 272-2064. The examiner can normally be reached on 9:00 a.m. to 6:30 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on (571) 272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TSH